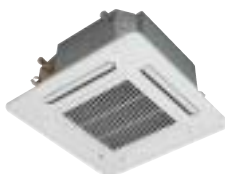


- ▮ SUPERIOR EER AND COP
- ▮ WIDE RANGE OF INDOOR UNITS
- ▮ R410A
- ▮ QUIET OPERATION



## MiNi-SMMS VRF.

### Features

The MiNi-SMMS is designed to bridge the capacity gap between Toshiba split systems and the larger SHRM and SMMS VRF systems.

The outdoor unit is compact and lightweight to enable fast and easy installation. It is available in three model sizes - 4, 5, and 6 HP units - that deliver cooling capacities from 12.1 to 15.5 kW and heating capacities from 12.5 to 18 kW.

The system is capable of operating up to nine indoor units, selected from 13 designs and available in over 80 sizes. Advantages of the MiNi-SMMS include best COPs, fast and easy installation, inverter technology and super quiet operation thanks to the optional PMV kit that can be fitted remotely.

### Key features

Best COP - 4.61 - in the industry.

One outdoor unit is capable of operating up to nine indoor units.

DC twin-rotary compressor for high efficiency and complete reliability.

Optional PMV kit for special applications that require very low sound levels.

Compatible with a wide range of indoor units and controls.

Compact and lightweight outdoor unit for ease-of-installation.

**Technical specifications heat pump**

Outdoor unit	HP	MCY-MAP0401HT	MCY-MAP0501HT	MCY-MAP0601HT
		4 HP	5 HP	6 HP
Cooling capacity	kW	12.1	14.0	15.5
Power input, cooling	kW	2.82	3.47	4.63
EER, cooling	W/W	4.29	4.03	3.35
Energy efficiency class, cooling		A	A	A
Running current, cooling	A	13.2	16.1	21.4
Heating capacity	kW	12.5	16.0	18.0
Power input, heating	kW	2.71	4.00	4.85
COP, heating	W/W	4.61	4.00	3.71
Energy efficiency class, heating		A	A	A
Running current, heating	A	12.5	18.3	22.2
Air flow	m <sup>3</sup> /h - l/s	5820 - 1617	6120 - 1700	6420 - 1783
Sound pressure level, cooling/heating	dB(A)	49/50	50/52	51/53
Operating range, cooling - db	°C	-5 - 43°C	-5 - 43°C	-5 - 43°C
Operating range, heating - wb	°C	-15 - 15.5°C	-15 - 15.5°C	-15 - 15.5°C
Dimensions (H x W x D)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	117	117	117
Compressor type		Hermetic	Hermetic	Hermetic
Refrigerant charge R410A	kg	7.2	7.2	7.2
Pipework				
Suction line type - diameter	in	Flare - 5/8	Flare - 5/8	Brazing - 3/4
Liquid line type - diameter	in	Flare - 3/8	Flare - 3/8	Flare - 3/8
Maximum equivalent length separation*	m	125	125	125
Maximum actual piping separation*	m	100	100	100
Maximum pipe length*	m	180	180	180
Maximum lift (Indoor unit above/below)	m	20/30	20/30	20/30
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

\* When PMV Kit is used: Maximum equivalent length separation (80 m); maximum actual piping separation (65 m); maximum pipe length (150 m)



## PMV kit


Utilising the PMV kit ensures ultra-quiet operation. The PMV kit can be located away from the outdoor unit to ensure improved comfort for the building occupants.

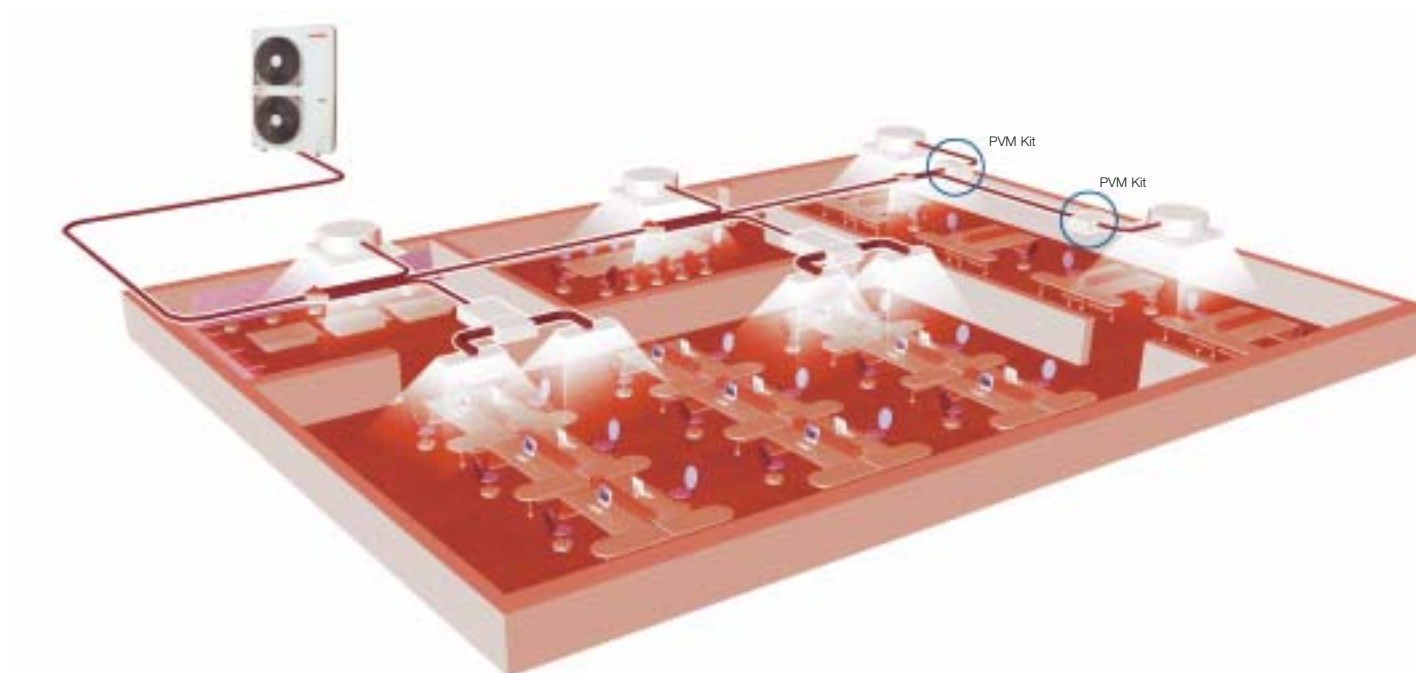
- Noise-free (refrigerant flow)
- Easy installation
- Condensation-free
- Minimum cost

Technical specifications **outdoor units**

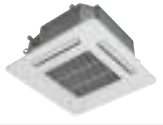
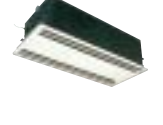







Model Name		Cooling capacity	Heating capacity	Number of indoor units Max	Total capacity of connectable indoor units	
					Min*	Max*
MCY-MAP0401HT	4 HP	12.1 kW	12.5 kW	6	3.2 HP	5.2 HP
MCY-MAP0501HT	5 HP	14.0 kW	16.0 kW	8	4.0 HP	6.5 HP
MCY-MAP0601HT	6 HP	15.5 kW	18.0 kW	9	4.8 HP	7.8 HP

Technical specifications **PMV kit**

	Model Name	Indoor unit capacity code (HP)
	RBM-PMV0361E	0.8 - 1 - 1.25
	RBM-PMV0901E	1.7 - 2 - 2.5



Technical specifications heat pump

Model Type	Model Name	Capacity Code	Cooling cap. (kW)	Heating cap. (kW)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	
Four Way Cassette 	MMU-AP0091H	1	2.8	3.2	256	840	840	20	
	MMU-AP0121H	1.25	3.6	4				22	
	MMU-AP0151H	1.7	4.5	5					
	MMU-AP0181H	2	5.6	6.3					
	MMU-AP0241H	2.5	7.1	8					
	MMU-AP0271H	3	8	9	319	840	840	23	
	MMU-AP0301H	3.2	9	10					
	MMU-AP0361H	4	11.2	12.5					
	MMU-AP0481H	5	14	16					
Compact Four Way Cassette 	MMU-AP0071MH	0.8	2.2	2.5	268	575	575	17	
	MMU-AP0091MH	1	2.8	3.2					
	MMU-AP0121MH	1.25	3.6	4					
	MMU-AP0151MH	1.7	4.5	5					
	MMU-AP0181MH	2	5.6	6.3					
Two Way Cassette 	MMU-AP0071WH	0.8	2.2	2.5	398	830	550	33	
	MMU-AP0091WH	1	2.8	3.2		1350		44	
	MMU-AP0121WH	1.25	3.6	4					
	MMU-AP0151WH	1.7	4.5	5					
	MMU-AP0181WH	2	5.6	6.3					
	MMU-AP0241WH	2.5	7.1	8					
	MMU-AP0271WH	3	8	9					
One Way Cassette 	MMU-AP0071YH	0.8	2.2	2.5	235	850	400	22	
	MMU-AP0091YH	1	2.8	3.2					
	MMU-AP0121YH	1.25	3.6	4					
	MMU-AP0152SH	1.7	4.5	5					
	MMU-AP0182SH	2	5.6	6.3					
Concealed duct, stand type 	MMU-AP0242SH	2.5	7.1	8	320	1000	710	21	
	MMD-AP0071BH	0.8	2.2	2.5				800	30
	MMD-AP0091BH	1	2.8	3.2					
	MMD-AP0121BH	1.25	3.6	4					
	MMD-AP0151BH	1.7	4.5	5					
	MMD-AP0181BH	2	5.6	6.3					
	MMD-AP0241BH	2.5	7.1	8					
	MMD-AP0271BH	3	8	9					
	MMD-AP0301BH	3.2	9	10					
	MMD-AP0361BH	4	11.2	12.5					
	MMD-AP0481BH	5	14	16					
Concealed duct, high static pressure 	MMD-AP0181H	2	5.6	6.3	380	850	660	50	
	MMD-AP0241H	2.5	7.1	8				1200	67
	MMD-AP0271H	3	8	9					
	MMD-AP0361H	4	11.2	12.5					
	MMD-AP0481H	5	14	16					
Slim Duct 	MMD-AP0071SPH	0.8	2.2	2.5	210	845	645	22	
	MMD-AP0091SPH	1	2.8	3.2				23	
	MMD-AP0121SPH	1.25	3.6	4					
	MMD-AP0151SPH	1.7	4.5	5					
	MMD-AP0181SPH	2	5.6	6.3					
Ceiling-suspended 	MMC-AP0151H	1.7	4.5	5	210	910	680	21	
	MMC-AP0181H	2	5.6	6.3		1180		25	
	MMC-AP0241H	2.5	7.1	8					
	MMC-AP0271H	3	8	9					
	MMC-AP0361H	4	11.2	12.5					
	MMC-AP0481H	5	14	16					
High-wall 	MMK-AP0072H	0.8	2.2	2.5	275	790	208	11	
	MMK-AP0092H	1	2.8	3.2					
	MMK-AP0122H	1.25	3.6	4					
High-wall 	MMK-AP0071H	0.8	2.2	2.5	368	895	210	18	
	MMK-AP0091H	1	2.8	3.2		1055		19	
	MMK-AP0121H	1.25	3.6	4.0					
	MMK-AP0151H	1.7	4.5	5.0					
	MMK-AP0181H	2	5.6	6.3					
	MMK-AP0241H	2.5	7.1	8.0					
Floor standing cabinet type 	MML-AP0071H	0.8	2.2	2.5	630	950	230	37	
	MML-AP0091H	1	2.8	3.2					
	MML-AP0121H	1.25	3.6	4					
	MML-AP0151H	1.7	4.5	5					
	MML-AP0181H	2	5.6	6.3					
	MML-AP0241H	2.5	7.1	8					
Floor standing Concealed type 	MML-AP0071BH	0.8	2.2	2.5	600	745	220	21	
	MML-AP0091BH	1	2.8	3.2					
	MML-AP0121BH	1.25	3.6	4					
	MML-AP0151BH	1.7	4.5	5					
	MML-AP0181BH	2	5.6	6.3					
	MML-AP0241BH	2.5	7.1	8					
Tall floor-standing 	MMF-AP151H	1.7	4.5	5	1750	600	210	48	
	MMF-AP181H	2	5.6	6.3				49	
	MMF-AP241H	2.5	7.1	8					
	MMF-AP271H	3	8	9					
	MMF-AP361H	4	11.2	12.5			390		65
	MMF-AP481H	5	14	16					